Derwent Record

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Derwent Title:	**Heap leaching of copper ores with sulphuric acid - using alternate layers of ore and solid sodium chloride**
Original Title:	SU0753922T: METHOD OF COPPER ORE PILE LEACHING
Assignee:	**AS KAZA METAL ENRIC** Soviet institute
Inventor:	**BEISEMBAEV B B; KATKOV Y U A; KUNAEV A M;**
Accession/ Update:	**1981-28544D / 198116**
IPC Code:	C22B 15/08 ;
Derwent Classes:	**M25**;
Manual Codes:	**M25-B**(Wet extraction of metal compounds from ores [general]) , **M25-G08**(Obtaining specific metals - copper)

Derwent Abstract:

(SU0753922B) In heap leaching of Cu ores using NaCl and H2S04, extn. of Cu and ore decrepitation are increased and leaching time is reduced by using alternate layers of ore and NaCl. The latter is used in solid form at the rate of 2.16- 3.46 tons per ton of Cu, the distance between the layers over the height of the heap being 0.3-1m. Sulphuric acid is used at a concn. of 10-12 g/litre, fed to the top of the heap.

The H2S04 reacts exothermically with the NaCl, producing HCl and heating the ore lumps locally, breaking them up. Example:80 kg of ore contg. 0.37% Cu is arranged in alternate layers with NaCl; the distance between the NaCl layers is 0.7m, and the heap is sprayed at the rate of 50 litres/ton of ore with H2S04 (12 g/litre).Copper extraction is 80.1-83% at an NaCl consumption of 2.16-3.24 tons/ton Cu and an H2S04 consumption of 3-3.4 tons/ton Cu in a leaching time of 300 days(2 summer seasons under industrial conditions).Bul.29/7.8.80.

Family:

PDF	Patent	Pub. Date	Derwent Update	Pages	Language	IPC Code
☑	SU0753922B	* 1980-08-07	198116		English	C22B 15/08

Priority Number:

Application Number	Filed	Original Title
SU1978002577157	1978-02-03	METHOD OF COPPER ORE PILE LEACHING

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